

UBER, III -- 09/939,656
Attorney Docket No.: 071419-0265228

- AMENDMENT -

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 12. *(Cancelled)*.

13. *(Currently Amended)* A method of An injection apparatus for delivering fluid to multiple patients, the apparatus comprising:

(a) providing a fluid delivery system comprising a reusable portion and a plurality of per-patient disposable portions, the reusable portion[[],] including

(i) a first fluid source;

(ii) a second fluid source; and

(iii) a device adapted to mix fluids from the first and second fluid source sources, the; and

(b) at least one plurality of per-patient disposable portion portions each including having a first end connectable to a patient of the multiple patients and a second end[[],] connectable to the reusable portion;

(b) connecting the second end of a first per-patient disposable portion of the plurality of per-patient disposable portions wherein, during delivery of the fluids to the patient, the second end of the at least one per-patient disposable portion couples to the reusable portion and the first end of the first per-patient disposable portion to a first patient of the multiple patients to define a continual fluid path between the first and second fluid sources and the first patient;

(c) delivering fluid from one or both of the first and second fluid sources to the first patient through the first per-patient disposable portion;

(d) disconnecting the first per-patient disposable portion from the reusable portion and the first patient;

(e) connecting a second per-patient disposable portion to the reusable portion and a second patient of the multiple patients; and

(f) delivering fluid from one or both of the first and second fluid sources to the second patient through the second per-patient disposable portion.

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14. *(Currently Amended)* The apparatus method of claim 13, wherein the fluid path reusable portion further comprises at least one metering device disposed between the first and second fluid sources.

15. *(Currently Amended)* The apparatus method of claim 14, further comprising a control device in communication with the metering device.

16. *(Currently Amended)* The apparatus method of claim 13, wherein the fluid path reusable portion further comprises a fluid assurance device.

17. *(Currently Amended)* The apparatus method of claim 13, wherein the first fluid source comprises a contrast source.

18. *(Currently Amended)* The apparatus method of claim 13, wherein the second fluid source comprises a diluent source.

19. – 62. *(Cancelled).*

63. *(Currently Amended)* The apparatus method of claim 13, wherein the device adapted to mix comprises a static mixer.

64. *(Currently Amended)* The apparatus method of claim 13, wherein the device adapted to mix comprises a Y element.

65. *(Currently Amended)* The apparatus method of claim 14, wherein the at least one metering device comprises a peristaltic pump.

66. *(Cancelled).*

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67. *(Currently Amended)* The apparatus method of claim 66 13 wherein the selector-valve is a rotary valve switch.[There is no antecedent basis in claim 13 for this claim language.]

68. *(Currently Amended)* The apparatus method of claim 13, wherein the device adapted to mix comprises a helical vane mixer.

69. *(Currently Amended)* The apparatus method of claim 13, wherein the reusable portion further comprises a pressurizing pump.

70. *(Currently Amended)* The apparatus method of claim 15, further comprising a user interface connected to the control device.

71. *(Currently Amended)* The apparatus method of claim 15, further comprising an electronic interface connecting the control device to a hospital information system.

72. *(Currently Amended)* A method of An injection apparatus for delivering fluid to multiple patients, the apparatus comprising:

(a) providing a fluid delivery system comprising a reusable portion and a plurality of per-patient disposable portions, the reusable portion[[],] including

- (i) a first fluid source;
- (ii) a second fluid source; and
- (iii) a Y element, the, and

(b) at least one plurality of per-patient disposable portion portions each including having a first end connectable to a patient of the multiple patients and a second end[[],] connectable to the reusable portion;

(b) connecting the second end of a first per-patient disposable portion of the plurality of per-patient disposable portions wherein, during delivery of the fluids to the patient, the second end of the at least one per-patient disposable portion couples to the reusable portion and the first end of the first per-patient disposable portion to a first

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patient of the multiple patients to define a continual fluid path between the first and second fluid sources and the first patient;

(c) delivering fluid from one or both of the first and second fluid sources to the first patient through the first per-patient disposable portion;

(d) disconnecting the first per-patient disposable portion from the reusable portion and the first patient;

(e) connecting a second per-patient disposable portion to the reusable portion and a second patient of the multiple patients; and

(f) delivering fluid from one or both of the first and second fluid sources to the second patient through the second per-patient disposable portion.

73. *(Currently Amended)* The apparatus method of claim 72, wherein the reusable portion further comprises at least one metering device disposed between the first and second fluid sources and the Y element.

74. *(Currently Amended)* The apparatus method of claim 73, further comprising a control device in communication with the metering device.

75. *(Currently Amended)* The apparatus method of claim 72, wherein the reusable portion further comprises a fluid assurance device.

76. *(Currently Amended)* The apparatus method of claim 72, wherein the first fluid source comprises a contrast source.

77. *(Currently Amended)* The apparatus method of claim 72, wherein the second fluid source comprises a diluent source.

78. *(Currently Amended)* The apparatus method of claim 73, wherein the at least one metering device comprises a peristaltic pump.

79. *(Cancelled).*

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80. *(Currently Amended)* The apparatus method of claim 72, wherein the reusable portion further comprises a pressurizing pump.

81. *(Currently Amended)* The apparatus method of claim 74, further comprising a user interface connected to the control device.

82. *(Currently Amended)* A method of An injection apparatus for delivering fluid to multiple patients, the apparatus comprising:

(a) providing a fluid delivery system comprising a reusable portion and a plurality of per-patient disposable portions, the reusable portion[[,]] including

(i) a first fluid source;

(ii) a second fluid source; and

(iii) a static mixer configured to mix fluids from the first and second fluid source sources, the; and

(b) at least one plurality of per-patient disposable portion portions each including having a first end connectable to a patient of the multiple patients and a second end[[,]]connectable to the reusable portion;

(c) connecting the second end of a first per-patient disposable portion of the plurality of per-patient disposable portions wherein, during for delivery of the mixed fluids to the patient, the second end of the at least one corresponding per-patient disposable portion couples to the reusable portion and the first end of the first per-patient disposable portion to a first patient of the multiple patients to define a continual fluid path between the first and second fluid sources and the first patient;

(d) delivering fluid from one or both of the first and second fluid sources to the first patient through the first per-patient disposable portion;

(e) disconnecting the first per-patient disposable portion from the reusable portion and the first patient;

(f) connecting a second per-patient disposable portion to the reusable portion and a second patient of the multiple patients; and

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(f) delivering fluid from one or both of the first and second fluid sources to the second patient through the second per-patient disposable portion.

83. *(Currently Amended)* The apparatus method of claim 82, wherein the reusable portion further comprises at least one metering device.

84. *(Currently Amended)* The apparatus method of claim 83, further comprising a control device in communication with the metering device.

85. *(Currently Amended)* The apparatus method of claim 82, wherein the reusable portion further comprises a fluid assurance device.

86. *(Currently Amended)* The apparatus method of claim 82, wherein the first fluid source comprises a contrast source.

87. *(Currently Amended)* The apparatus method of claim 82, wherein the second fluid source comprises a diluent source.

88. *(Currently Amended)* The apparatus method of claim 83 wherein the at least one metering device comprises a peristaltic pump.

89. *(Cancelled).*

90. *(Currently Amended)* The method apparatus of claim 82 wherein the reusable portion further comprises a pressurizing pump.

91. *(Currently Amended)* The apparatus method of claim 84, further comprising a user interface connected to the control device.

92. - 94. *(Cancelled).* [I believe these claims were cancelled in a previous amendment.]